

# SAFETY DATA SHEET (SDS-US)

HYDROFOL 99.7% USP

VA-No.

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : HYDROFOL 99.7% USP

Chemical Name : Glycerin

### 1.2. Recommended use of the chemical and restrictions on use

Recommended use : Industrial Use

Non-recommended use(s) : None known.

### 1.3. Details of the supplier of the safety data sheet

Company : Evonik Corporation  
Consumer Specialties  
PO Box 1299  
HOPEWELL VA 23860  
USA

Telephone : +1 (0)804 541-8658

Telefax : +1 (0)804 541-2783

E-mail : productsafety-cs@evonik.com

#### Contact Canada

Company : Evonik Canada Inc.  
PO Box 5057  
3380 South Service Road  
Burlington ON L7N 3J5  
Canada

Telephone : +1 (0)905-336-3423

Telefax : +1 (0)905-332-5632

E-mail : productsafety-cs@evonik.com

### 1.4. Emergency telephone number

Emergency information : +1-800 424-9300 (Phone)  
+1-800 424-9300 (FAX)

In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD:  
1-703-527-3887.

24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA toll free: +1-800-424-9300

CHEMTREC - MEXICO toll free: 01-800-681-9531

CHEMTREC GLOBAL - Collect calls accepted: +1-703-527-3887

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to 29 CFR 1910.1200.

### 2.2. Label elements

Not a hazardous substance or mixture according to 29 CFR 1910.1200.

### 2.3. Other hazards

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None known

## 3. Composition/information on ingredients

## 4. First aid measures

### 4.1. Description of first aid measures

General advice : No information available.

Inhalation : Not expected to present an inhalation exposure at normal conditions. Remove individual to fresh air and consult a physician.

Skin contact : Immediately and thoroughly, wash off with soap and water.

Eye contact : Immediately flush with large amounts of water for at least 15 minutes or more. Lifting upper and lower lids intermittently. See a physician or ophthalmologist and show this data sheet.

Ingestion : Drink 1-2 glasses of water and seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms : No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, water fog, alcohol foam

Unsuitable extinguishing media :

### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

no data available

### 6.2. Environmental precautions

no data available

### 6.3. Methods and material for containment and cleaning up

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**7. Handling and storage****7.1. Precautions for safe handling**

Advice on safe handling : no data available

Handling : no data available

Hygiene measures : No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift. Avoid Skin and Eye Contact. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

General protective measures : no data available

**7.2. Conditions for safe storage, including any incompatibilities****Prevention of fire and explosion**

Information : None Known

**Storage**

Information : Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not store near heat or open flame.

Further information on storage conditions : Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.

**8. Exposure controls/personal protection****8.1. Control parameters****Exposure limit(s)**

| Ingredients        | CAS-No. | Statutory basis/list (Update) | Value type (Form of exposure; Expressed as) | Value    | Short-term |
|--------------------|---------|-------------------------------|---------------------------------------------|----------|------------|
| 1,2,3-Propanetriol | 56-81-5 | ACGIH (2009)                  | TWA                                         | 10 mg/m3 |            |
|                    |         | OSHA Z1 (02 2006)             | PEL                                         | 5 mg/m3  |            |
|                    |         | OSHA Z1 (02 2006)             | PEL                                         | 15 mg/m3 |            |

**8.2. Exposure controls****Engineering controls**

Appropriate engineering controls : Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment**

Eye protection : Splash proof eye goggles recommended.

Hand protection : Gloves not required but recommended (PVC).

Body Protection : protective overalls

Respiratory protection : If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator.

**9. Physical and chemical properties**

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|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Physical state                             | : no data available                      |
| Form                                       | : liquid                                 |
| Colour                                     | : Colorless                              |
| Odour                                      | : Faint                                  |
| Odour Threshold                            | : not measured                           |
| pH                                         | : ca. 7<br>Remarks: At 10%, in water.    |
| Melting point                              | : no data available                      |
| Boiling point                              | : Boiling point/range<br>= 290 °C        |
| Flash point                                | : > 320 °F<br>Method: Cleveland Open Cup |
| Evaporation rate                           | : Slower than ether                      |
| Flammability                               | : no data available                      |
| Upper<br>Explosion/Ignition<br>Limit       | : Not measured                           |
| Lower explosion limit                      | : Not measured                           |
| Vapour pressure                            | : 0.003 mbar<br>(50 °C)                  |
| Relative vapour<br>density                 | : not measured                           |
| Relative density                           | : no data available                      |
| Solubility                                 | : not measured                           |
| Water solubility                           | : Soluble                                |
| Partition coefficient<br>(n-octanol/water) | : not measured                           |
| Autoignition<br>temperature                | : not measured                           |
| Thermal<br>decomposition                   | : no data available                      |
| Viscosity, kinematic                       | : no data available                      |
| Viscosity, dynamic                         | : no data available                      |
| Explosive properties                       | : not measured                           |

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Oxidising properties : not measured

## 9.2. Other information

Density : 1.26 g/cm<sup>3</sup>

Metal corrosion : not measured

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## 10. Stability and reactivity

### 10.1. Reactivity

see section "Possibility of hazardous reactions"

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

Avoid contact with strong oxidizing agents.

### 10.5. Incompatible materials

Unknown

### 10.6. Hazardous decomposition products

no data available

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## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : no data available

Acute toxicity  
(inhalation) : no data available

Acute toxicity  
(dermal) : no data available

Irritation/corrosion of  
the skin : The toxic effects of this material is not known.

Serious eye damage/  
eye irritation : Result: The toxic effects of this material is not known.

Respiratory/skin  
sensitization : no data available

Repeated dose  
toxicity : no data available

#### CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to  
reproduction : no data available

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Specific Target : no data available  
Organ Toxicity -  
Single exposure  
Specific Target : no data available  
Organ Toxicity -  
Repeated exposure  
Other information : no data available

**12. Ecological information****Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

**12.1. Toxicity**

Aquatic toxicity, fish : no data available

Aquatic toxicity, invertebrates : no data available

Aquatic toxicity, algae / aquatic plants : no data available

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

**12.2. Persistence and degradability**

Photodegradation : no data available

Biological degradability : no data available

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

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Chemical Oxygen Demand (COD) : no data available

relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Distribution among environmental compartments : no data available

**12.3. Bioaccumulative potential**

Bioaccumulation : no data available

**12.4. Mobility in soil**

Environmental distribution : no data available

**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment : no data available

**12.6. Other adverse effects**

General Information : No data available.

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**13. Disposal considerations****13.1. Waste treatment methods**

Product : Incinerate in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted facilities is recommended.

Contaminated packaging : no data available

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**14. Transport information**

**Not dangerous according to transport regulations.**

- |                                    |    |
|------------------------------------|----|
| 14.1 UN number:                    | -- |
| 14.2 UN proper shipping name:      | -- |
| 14.3 Transport hazard class(es):   | -- |
| 14.4 Packing group:                | -- |
| 14.5 Environmental hazards:        | -- |
| 14.6 Special precautions for user: | No |

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**15. Regulatory information**

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Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada

: WHMIS CLASSIFICATION

Non-WHMIS

This product does not contain component(s) on the WHMIS Ingredient Disclosure List.

US regulations:

SARA Title III Section : No SARA Hazards  
311/312 Hazard  
Categories

Other regulations : no data available

State Right to Know : No components subject to "Right-To-Know" legislation in the following States: NJ, PA, MA and RI

SARA 313: This product contains no SARA Title III, Section 313 listed chemicals.

**Notification status**

USA (TSCA) : listed/registered or exempted

Canada (DSL) : listed/registered or exempted

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**16. Other information****List of references**

Other information : none

Revision date : 12/01/2014

Changes since the last version are highlighted in the margin. This version replaces all previous versions. This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

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**Legend**

|                  |                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>ADR</b>       | European Agreement concerning the International Carriage of Dangerous Goods by Road                                |
| <b>ADN</b>       | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways                    |
| <b>ADNR</b>      | European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)              |
| <b>ASTM</b>      | American Society for Testing and Materials                                                                         |
| <b>ATP</b>       | Adaptation to Technical Progress                                                                                   |
| <b>BCF</b>       | Bioconcentration factor                                                                                            |
| <b>BetrSichV</b> | German Ordinance on Industrial Safety and Health                                                                   |
| <b>c.c.</b>      | closed cup                                                                                                         |
| <b>CAS</b>       | Chemical Abstract Services                                                                                         |
| <b>CESIO</b>     | European Committee of Organic Surfactants and their Intermediates                                                  |
| <b>ChemG</b>     | German Chemicals Act                                                                                               |
| <b>CMR</b>       | carcinogenic-mutagenic-toxic for reproduction                                                                      |
| <b>DIN</b>       | German Institute for Standardization                                                                               |
| <b>DMEL</b>      | Derived minimum effect level                                                                                       |
| <b>DNEL</b>      | Derived no effect level                                                                                            |
| <b>EINECS</b>    | European Inventory of Existing Commercial Chemical Substances                                                      |
| <b>EC50</b>      | half maximal effective concentration                                                                               |
| <b>GefStoffV</b> | German Ordinance on Hazardous Substances                                                                           |
| <b>GGVSEB</b>    | German ordinance for road, rail and inland waterway transportation of dangerous goods                              |
| <b>GGVSee</b>    | German ordinance for sea transportation of dangerous goods                                                         |
| <b>GLP</b>       | Good Laboratory Practice                                                                                           |
| <b>GMO</b>       | Genetic Modified Organism                                                                                          |
| <b>IATA</b>      | International Air Transport Association                                                                            |
| <b>ICAO</b>      | International Civil Aviation Organization                                                                          |
| <b>IMDG</b>      | International Maritime Dangerous Goods                                                                             |
| <b>ISO</b>       | International Organization For Standardization                                                                     |
| <b>LOAEL</b>     | Lowest observed adverse effect level                                                                               |
| <b>LOEL</b>      | Lowest observed effect level                                                                                       |
| <b>NOAEL</b>     | No observed adverse effect level                                                                                   |
| <b>NOEC</b>      | no observed effect concentration                                                                                   |
| <b>NOEL</b>      | no observed effect level                                                                                           |
| <b>o. c.</b>     | open cup                                                                                                           |
| <b>OECD</b>      | Organisation for Economic Cooperation and Development                                                              |
| <b>OEL</b>       | Occupational Exposure Limit                                                                                        |
| <b>PBT</b>       | Persistent, bioaccumulative, toxic                                                                                 |
| <b>PEC</b>       | Predicted effect concentration                                                                                     |
| <b>PNEC</b>      | Predicted no effect concentration                                                                                  |
| <b>REACH</b>     | REACH registration                                                                                                 |
| <b>RID</b>       | Convention concerning International Carriage by Rail                                                               |
| <b>STOT</b>      | Specific Target Organ Toxicity                                                                                     |
| <b>SVHC</b>      | Substances of Very High Concern                                                                                    |
| <b>TA</b>        | Technical Instructions                                                                                             |
| <b>TPR</b>       | Third Party Representative (Art. 4)                                                                                |
| <b>TRGS</b>      | Technical Rules for Hazardous Substances                                                                           |
| <b>VCI</b>       | German chemical industry association                                                                               |
| <b>vPvB</b>      | very persistent, very bioaccumulative                                                                              |
| <b>VOC</b>       | volatile organic compounds                                                                                         |
| <b>VwVwS</b>     | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| <b>WGK</b>       | Water Hazard Class                                                                                                 |
| <b>WHO</b>       | World Health Organization                                                                                          |